

### **REMARKS**

The following remarks are responsive to the Final Office Action mailed March 26, 2004. Applicant respectfully requests reconsideration of the present application, as amended.

#### ***Amendment to the Specification***

The specification has been amended to correct an obvious typographical error.

#### ***Amendment to the Claims as to Form***

The applicant has amended claim 1 for a memory controller, as to form. The previously amended claim 1 included the element "a memory controller." The currently amended claim one includes the element "a command sequencer and serializer unit." The amendment is supported by the specification and no new material has been added.

#### ***Status of Claims***

At the time the Office Action was mailed, claims 1, 3-6, 8-10 and 12-15 were pending in the application. In the present response, claims 1, 6 and 10 have been amended. No claims have been canceled or added. No new matter has been added. Therefore, claims 1, 3-6, 8-10 and 12-15 remain pending in the application.

***Claim Rejections – 35 U.S.C. § 103***

The Examiner has rejected claims 1, 3-6, 8-10 and 12-15 under 35 USC 103(a) as being unpatentable over Westberg (U.S. Patent No. 5,361,391) in view of Vondran, Jr. (U.S. Patent No. 6,480,938). Applicant has amended claims 1, 6 and 10 to include limitations which neither Westberg nor Vondran teach or suggest, either alone or in combination. In particular, applicant has added the limitation “having a count” with respect to the array of tag address storage locations, and the limitation:

the cache line having a cache line size, the cache line in one of an unsegmented state and a segmented state in which the size of the cache line is one half of the cache line size in the unsegmented state, and further wherein the count of tag address storage locations is invariant between the unsegmented state of the cache line and the segmented state of the cache line.

Accordingly, applicant respectfully submits that claims 1, 6 and 10, as amended, are patentable over Westberg in view of Vondran, and respectfully requests the allowance of claims 1, 6 and 10, as amended.

Given that claims 3-5 depend from claim 1, that claims 8 and 9 depend from claim 6, and that claims 12-15 depend from claim 10, applicant respectfully submits that claims 3-5, 8, 9 and 12-15 are also patentable over Westberg in view of Vondran and respectfully requests the allowance of same.

***Conclusion***

In conclusion, applicant respectfully submits that in view of the amendments set forth herein, the applicable rejections have been overcome, and that the present application is in condition for allowance. Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

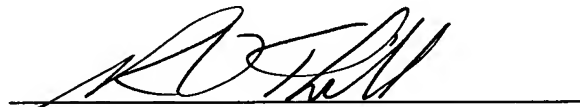
If the Examiner believes a telephone interview would expedite the prosecution of this application, the Examiner is invited to contact Richard Thill at (408) 720-8300.

If there are any additional charges, please charge our Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 8/26, 2004



Richard W. Thill  
Registration No. 53,686

12400 Wilshire Boulevard  
Seventh Floor  
Los Angeles, CA 90025-1026  
(408) 720-8300